

KFV

Magnetic lock

Assembly instructions : Magnetic lock 111

Window systems

Door systems

Comfort systems

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Magnetic lock 111

Lock

- Based on DIN 18251-1 class 1
- For rebated interior doors
- Quiet closing, pleasant acoustics
- The latch does not hit the door frame
- High-quality appearance thanks to flush latch position in gear box
- With permanent magnets (neodymium) in the latch and striker plate
- Brushed stainless steel secondary sash and striker plate
- Also available as a pure latch lock
- Secondary sash width 18, 20
- WC and BB (skeleton key)

Striker plate

- Stainless steel striker plate with neodymium triggering magnets
- Magnet can not be removed when installed
- Circumferential PVC backing with fastening points
- Third fastening hole between the latch and the deadbolt is possible
- Only available for the latch lock with latch cut out
- Fits standard milling

Technical specifications

Lock

Surface	satin finished stainless steel
Secondary sash width	18, 20 mm
Secondary sash profile	flat, rounded, 235 mm
Versions	BB, WC and latch lock
Backset	55 mm
Spindle square	8 mm
Latch	PVC with 2 neodymium magnets, 10 mm hook bolt
Deadbolt	PVC, single turn, 10 mm hook bolt

Striker plate

Surface	satin finished stainless steel
Length	170 mm with 8 mm vertical leg, edged
Fastening perforation	2 or 3 fastening holes (between latches and deadbolt aperture)
Backing	PVC, perforation in the deadbolt area

Striker plates are available with recessed strike plates as an option

Striker plates for the latch lock available without striker plate opening

1. Introduction

1.1 Validity

These instructions describe the installation of the magnetic lock 111 and are valid unless revoked.

1.2 Target group of this documentation

These assembly instructions are intended for use by specialists only. All work described in this document is to be performed only by experienced professionals with training and practice in the assembly, installation and maintenance of KfV locking parts.

If the lock on an existing door needs to be replaced, the lock can be replaced by non-specialists. The position of the striker plate must be adapted accordingly.

1.3 Correct use

1.3.1 Installation location

- The lock is suitable for installation in single-sash and double-sash doors with an inactive sash in permanent buildings.
- The lock may only be installed in doors that have been assembled in a technically sound manner.

1.3.2 Locking part and hardware

- The use of any additional devices to keep the door closed (with the exception of a door closer) is not permitted. If a door closer is installed, it must not impede operation of the door by children, the elderly or infirm.
- The locking elements must always engage freely in the lock striker of the frame parts.
- Do not attempt to repair the lock. If the lock is damaged, it must be replaced by KfV or repaired by a service agent authorized by KfV.
- Only KfV frame parts may be used.

1.3.3 Transport

- Do not carry the door by the lever handle or hardware when transporting it.
- Opening/closing/locking: It must be possible to open and close the door easily.

1.4 Improper use

- The lock must not be used for escape doors.
- The lock is not designed to accommodate changes to its shape or seal which arise as a result of differences in temperature or changes to the building.
- The lock must not be used in doors for wet rooms or rooms in which the air contains aggressive or corrosive components.
- Foreign objects and/or materials which impede or prevent proper use must not be placed within the opening range, the locking system or the striker plates.

- The lock must not be tampered with and/or modified.
- Locking elements must not be misused to hold the door open.
- Movable or adjustable locking pieces (e.g. deadbolt, latch) must not be painted over.

1.5 Care and service instructions

- The magnetic lock 111 is maintenance-free.

1.6 Installation conditions and requirements



Local building laws and regulations must be observed before and during door installation in addition to the following requirements and conditions:

- Observe the milling dimensions
- Position the frame parts according to the specifications, observing the horizontal and vertical adjustment closely.
- Before installing the lock, check the dimensional accuracy of the door and the door frame. The lock must not be installed if the door or the door frame is warped and/or damaged.
- Install the lock and accessories according to our assembly instructions.
- Remove any splinters from the lock mortise after milling.
- Once the lock is installed, do not perform mechanical work on the door (such as drilling or milling). Do not drill into or through the latch under any circumstances.
- Observe the specified positions and sizes when drilling the holes.
- Follow the hardware manufacturer's instructions when drilling the holes for the operating handle/hardware.
- Install hardware components and cylinder flush without overtightening the screws or screwing them in at an angle.
- Fasten handle set by hand only and do not use force when installing the spindle.
- Residual airgap, in accordance with DIN 18251-1, keep a gap of 2 mm - 5 mm between the secondary sash and the frame parts.
- Operating elements should not impede each other.
- Check that any existing block setting is packed correctly.
- Surface treatment of the door and door frame must take place before the lock is installed. Subsequent surface treatment can reduce the functional capacity of the hardware components.
- Use only acid-free neutral-cure sealants to prevent corrosion of components and/or the door.

1.7 Dimensions

All measurements are given in mm.

1.8 Explanation of symbols

	Milling cutter or drill diameter
	Timber (material of the door)

1.9 Instructions and symbols

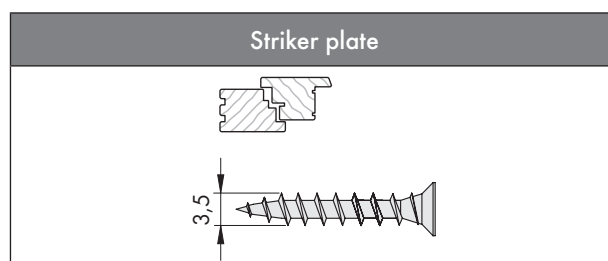
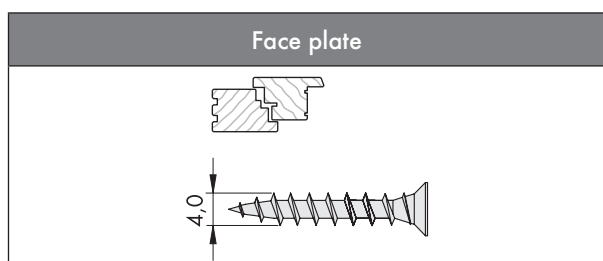


This symbol designates hazards that could damage the product or something in the surrounding area.



This symbol indicates special features and designates facts that require increased attention.

1.10 Screw recommendation



The recesses of the striker plates and the secondary sashes are constructed for the above-mentioned screws. Ensure that you always position the screws centrally and tighten them vertically to be flush with the striker plates or secondary sashes.

Avoid screwing at an angle because projecting screw heads could lead to functional disorders.

1.11 Safety notices



Magnets and magnetic sources could damage or delete electronic data carriers.

- Keep the magnets of the lock latch or the striker plate away from magnetic strips of cards and memory media.



This symbol indicates special features and designates facts that require increased attention.

2. Overview

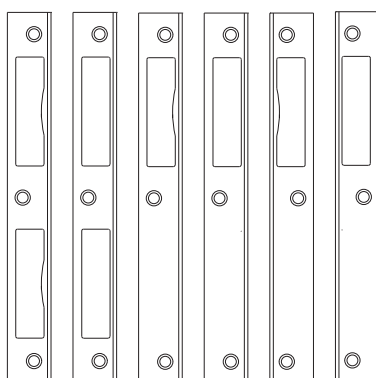
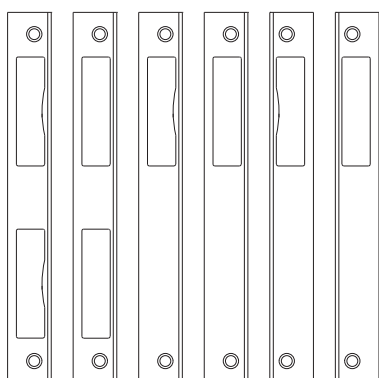
2.1 Product presentation



[1] PVC backing

[2] Striker plate

[3] Lock



The striker plate is available in twelve versions:

- With 2 or 3 fastening holes
- With file latch entry
- Without file latch entry
- With striker plate opening
- Without striker plate opening.

The striker plates with deadbolt openings are suitable for both right and left hinges.

3. Installation

3.1 Cutting the door leaf



Milling dimensions according to DIN 18101



Remove any splinters from the lock mortise after milling.



Mark the holes for the handle set, according to DIN 18251-1: it is essential to dismount the gear box first.

Metal filings could be attracted by the magnets of the latch, which could interfere with the functioning of the latch.

Check the functioning of the lock prior to installation

- Press the lever handle down fully.

The lever handle must return to its original position by itself.

If the lever handle does not return to its original position by itself, there is a functional disorder. Replace the lock if necessary.

- Turn the key (BB version) in the locking direction (one turn).

The deadbolt must engage smoothly and completely.

If the deadbolt does not return to its original position smoothly and completely, there is a functional disorder. Replace the lock if necessary.

- Pull the key out when the deadbolt is unlocked.

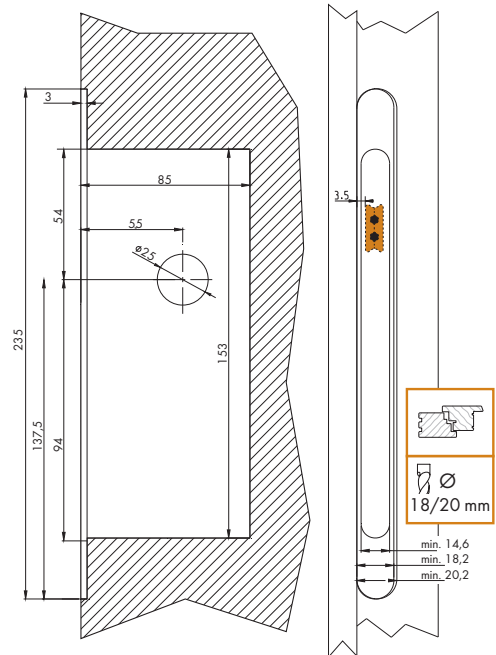
If the key cannot be pulled out, there is a functional disorder, replace the lock if necessary.

- Turn the handle (WC version) in the locking direction (90°).

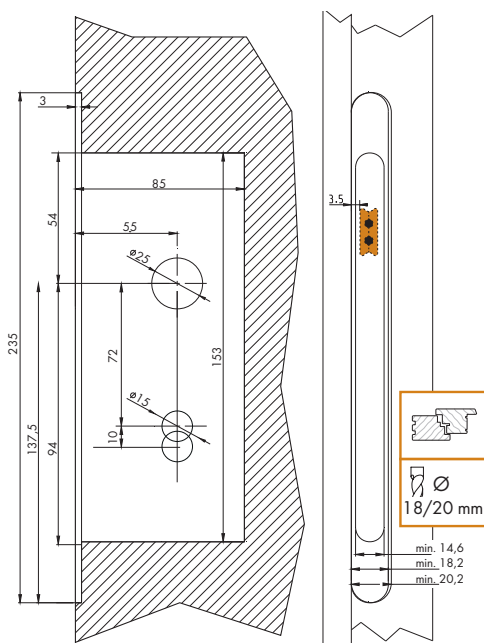
The deadbolt must engage smoothly and completely.

If the deadbolt does not return to its original position smoothly and completely, there is a functional disorder. Replace the lock if necessary.

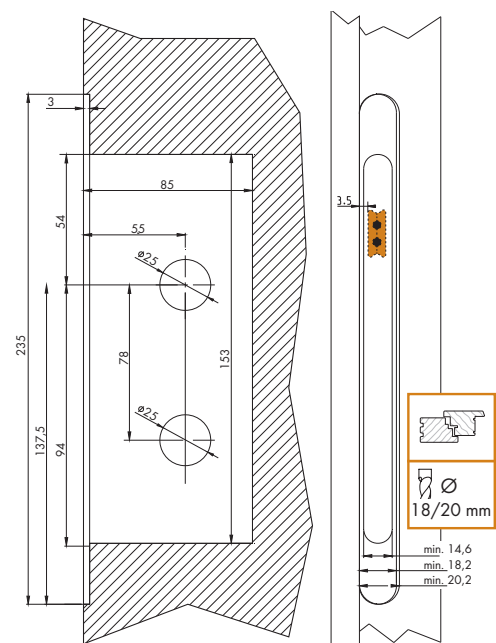
Latch lock WES 111-1/2-F/55



Latch and deadbolt with skeleton key WES 111-1/2-BB/55



Milling dimensions for latch deadbolt lock WC 18/20



3.2 Screw on the magnetic lock

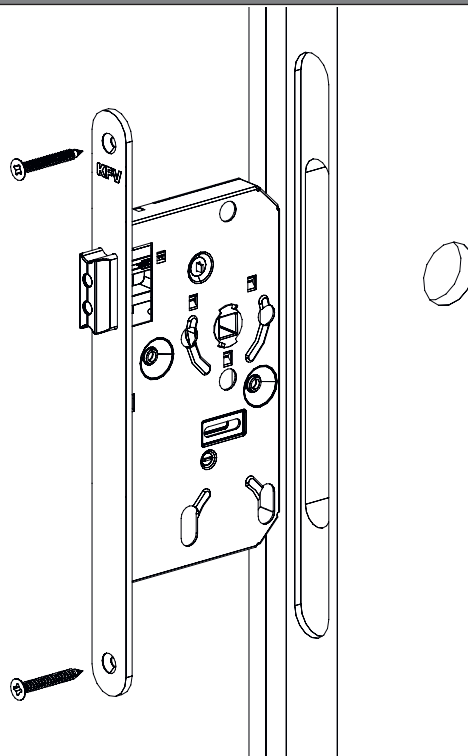


according to DIN 18251-1

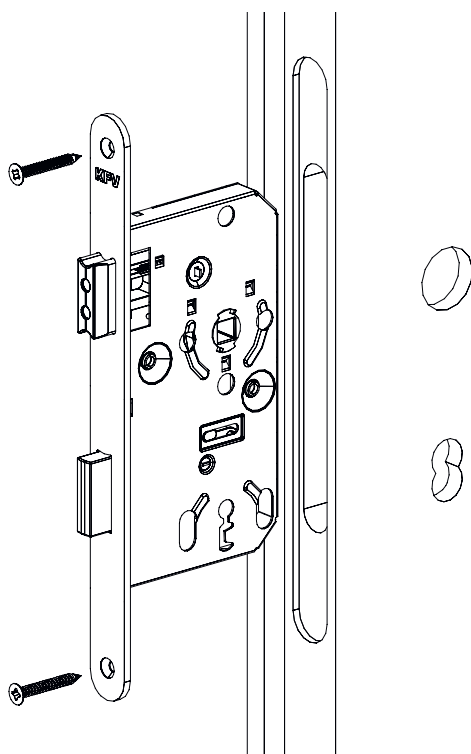


- Install hardware components and cylinder flush without overtightening the screws or screwing them in at an angle.
- Mount the handle set according to the manufacturer's instructions.
- Do not mount the spindle using force.

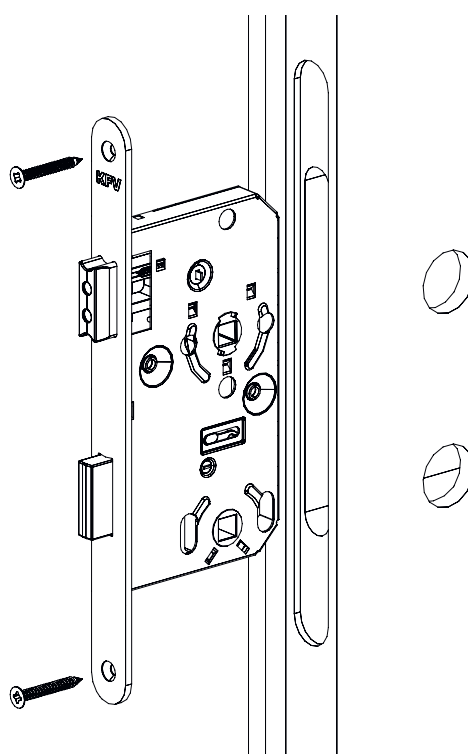
SSP 111-1/2-F/55-L (DIN left)



WES 111-1/2-BB/55-L (DIN left)



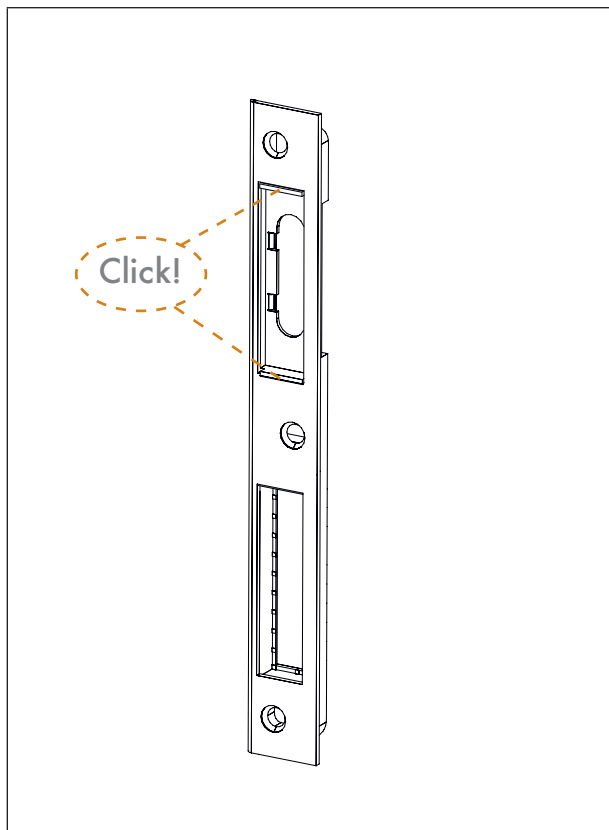
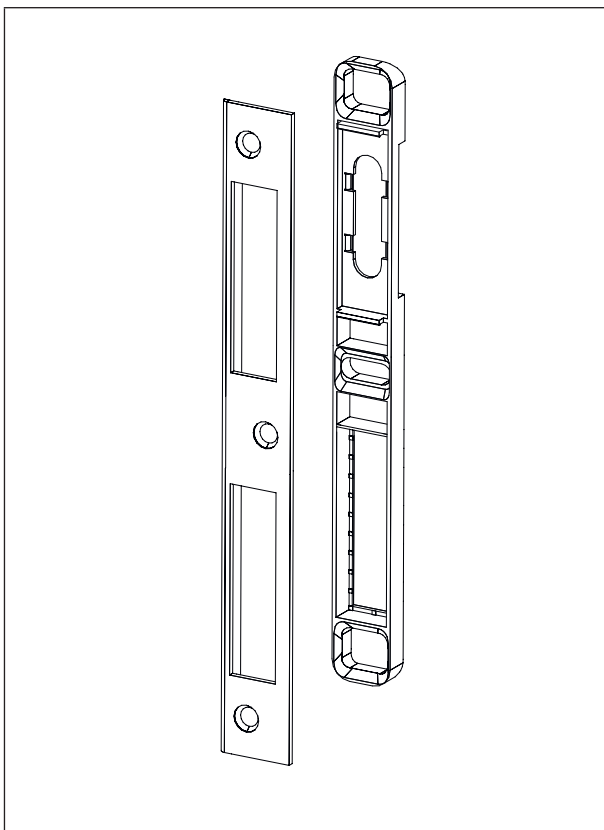
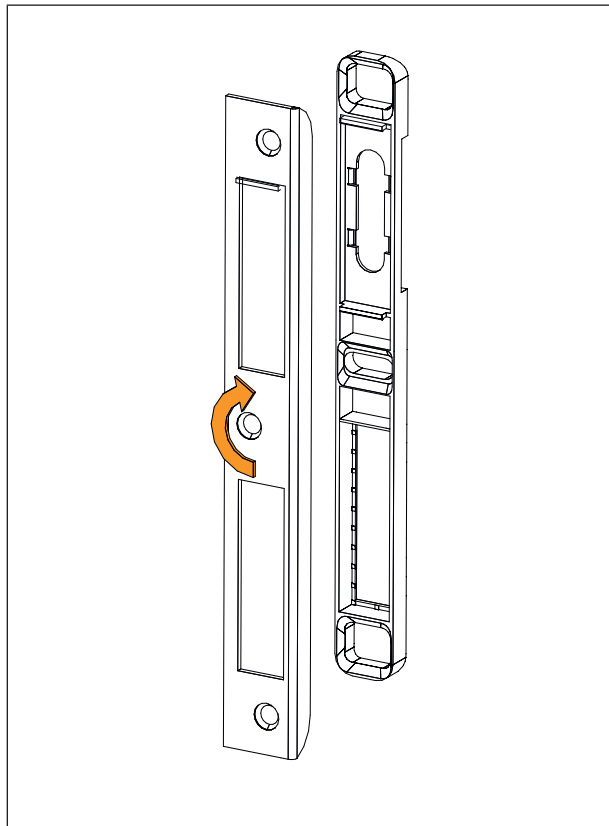
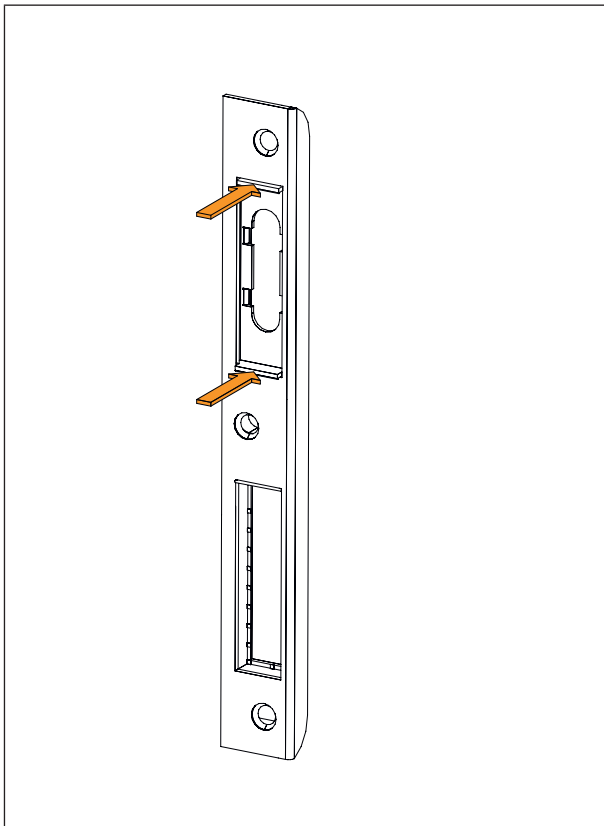
WES 111-1/2-WC/55-L (DIN left)



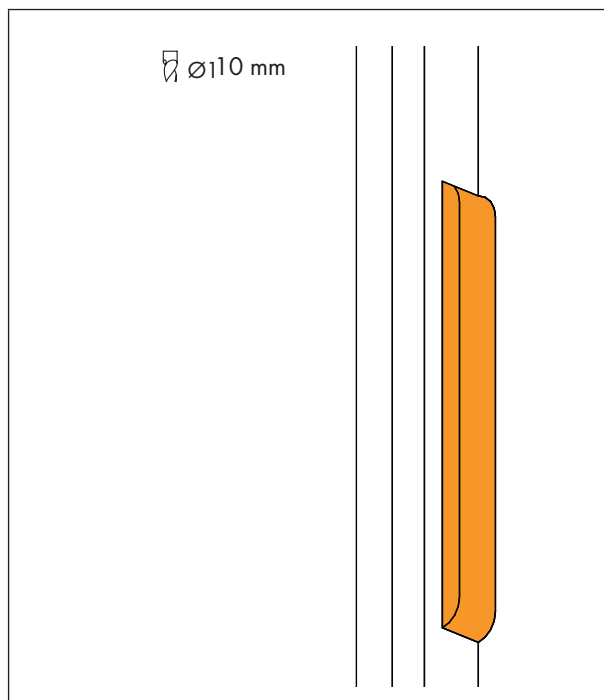
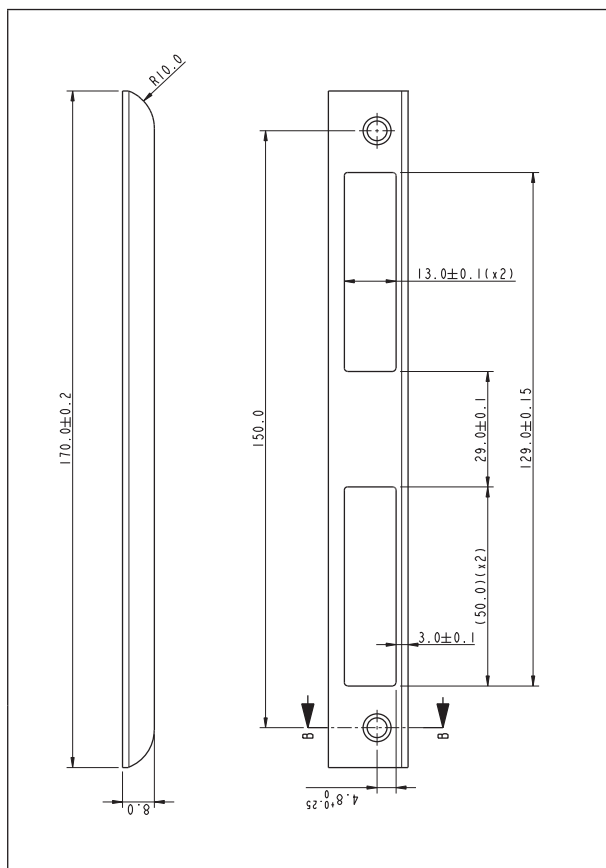
3.3 Changing the hinge side of the striker plate



The magnet is marked on one side. This side must be pointing backwards in the striker plate.

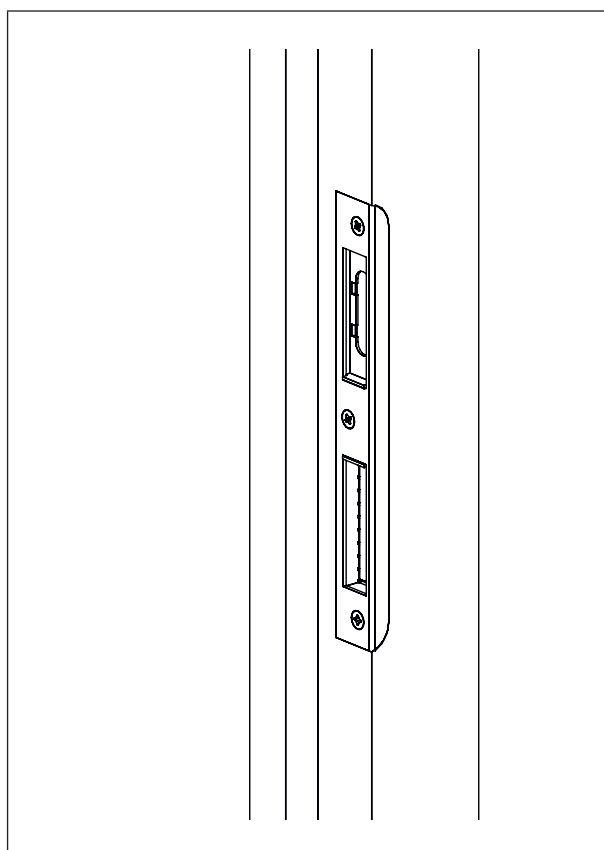
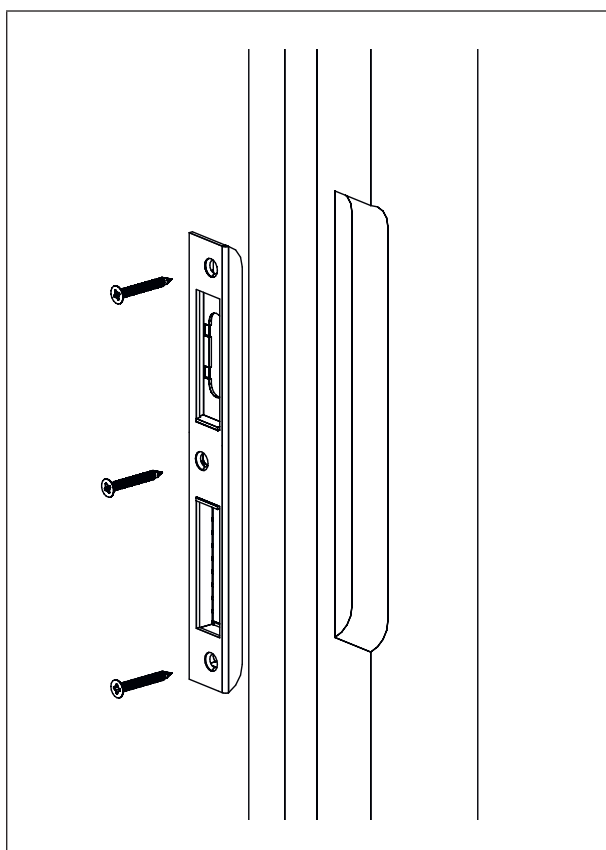


3.4 Milling the door frame



Position of the striker plate upper edge of striker plate to centre of handle spindle 60 mm.

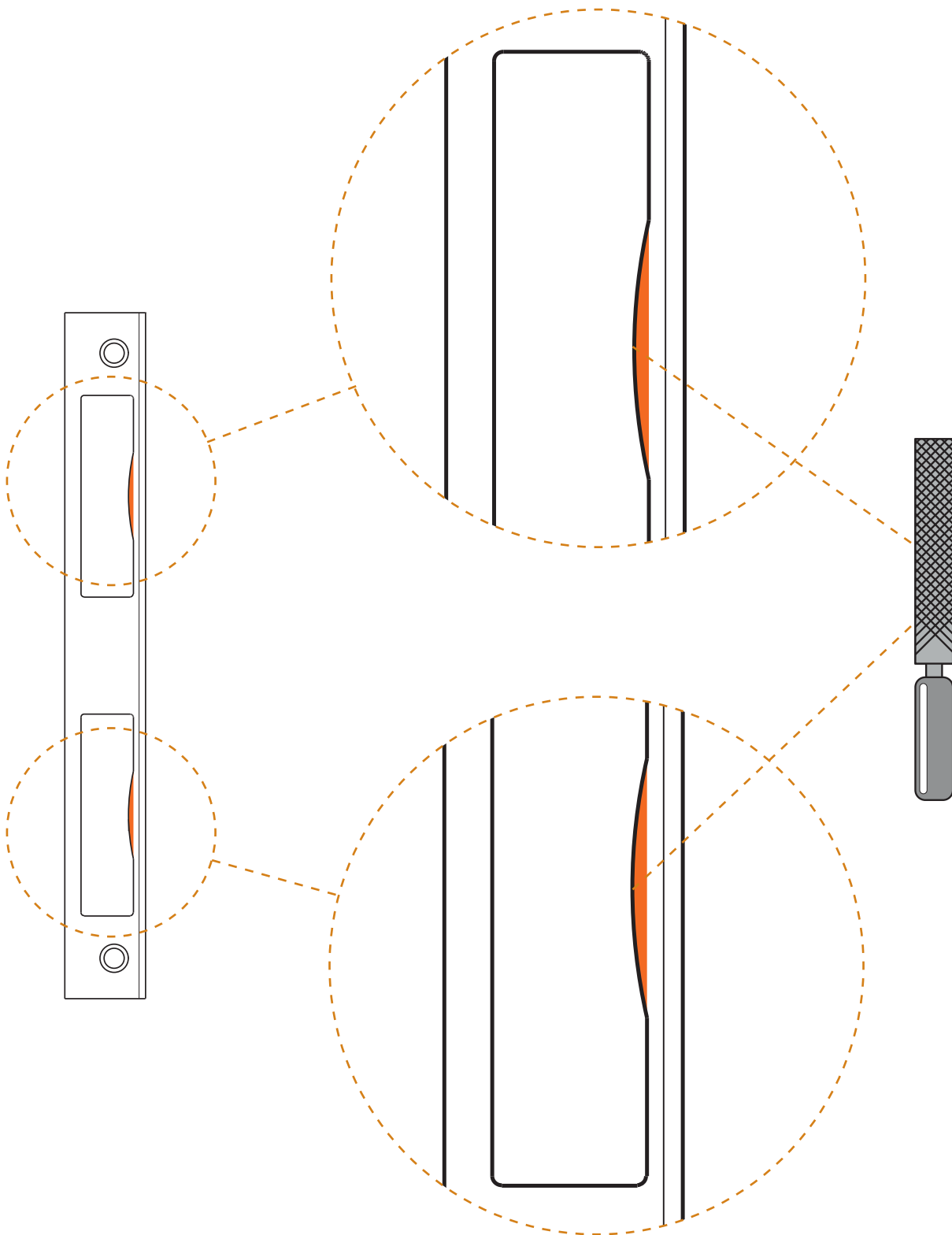
3.5 Mount the striker plate



3.6 Adjusting the frame parts



To ensure the smooth engagement of latch and deadbolt, adapt the recessed strike plate accordingly using a file.



3.7 Functional test



In order to check the functionality, the door and the door frame must be positioned vertically.

3.7.1 Checking functionality when the door is open:

Check that all fixing screws are secure:

- Use a screwdriver to ensure that all fixing screws are fully screwed in.

Screws should not be screwed in too tightly or over tightened.



Adhere to the screw torque specified by the manufacturer.

Check the lever handle functionality:

- Press the lever handle down fully.

The lever handle must return to its original position by itself.

If the lever handle does not return to its original position by itself, there is a functional disorder.

- Check the routed pocket for dimensional accuracy.
- Check that the lever handle is correctly seated.
- Check that the door hardware is correctly seated.

If the lever handle does not return to its original position by itself, replace the lock.

Check the function of the deadbolt of the BB version:

- Turn the key in the locking direction (one turn).

It must be possible to engage the deadbolt fully and easily.

If the deadbolt does not return to its initial position smoothly and completely, there is a functional disorder.

- Check the routed pocket for dimensional accuracy.
- Check that the door hardware is correctly seated.

If the deadbolt does not return to its initial position smoothly and completely, replace the lock.

- Pull the key out when the deadbolt is unlocked.

If the key cannot be pulled out, there is a functional disorder.

- Check the routed pocket for dimensional accuracy.
- Check that the door hardware is correctly seated.

If the key cannot be pulled out, replace the lock.

Check the function of the deadbolt of the WC version:

- Turn the handle in the locking direction (90°). If the deadbolt does not return to its original position smoothly and completely, there is a functional disorder.

- Check the routed pocket for dimensional accuracy.
- Check that the door hardware is correctly seated.

If the handle cannot be turned 90°, replace the lock.

3.7.2 Checking functionality when the door is closed

- Shut the door

The latch must engage freely when locking the door.

If the latch does not engage freely:

- Check the routed pocket for dimensional accuracy.
- Adapt the recess strike plate for the latch on the striker plate.

Check the function of the deadbolt of the BB version:

- Turn the key in the locking direction (one turn).

It must be possible to engage the deadbolt fully and easily.

if the deadbolt does not operate with ease.

- Adapt the recess strike plate for the deadbolt on the striker plate.

if the deadbolt does return to its original position completely.

- Remove the PVC plate on the perforation in the PVC backing.

Check the function of the deadbolt of the WC version:

- Turn the handle in the locking direction (90°).

It must be possible to engage the deadbolt fully and easily.

if the deadbolt does not operate with ease.

- Adapt the recess strike plate for the deadbolt on the striker plate.

if the deadbolt does return to its original position completely.

- Remove the PVC plate on the perforation in the PVC backing.

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A company of the SIEGENIA GROUP
KFV Karl Fliether GmbH & Co. KG
Siemensstraße 10
42551 Velbert
GERMANY

Phone: +49 2051 278-0
Fax: +49 2051 278-167
info@siegenia.com
www.siegenia.com



You can find address details for our
international sites at: www.siegenia.com

SIEGENIA worldwide:

Austria Phone: +43 6225 8301
Belarus Phone: +375 17 3143988
Benelux Phone: +31 85 4861080
China Phone: +86 316 5998198
France Phone: +33 3 89618131
Germany Phone: +49 271 39310
Great Britain Phone: +44 2476 622000

Hungary Phone: +36 76 500810
Italy Phone: +39 02 9353601
Poland Phone: +48 77 4477700
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Switzerland Phone: +41 33 3461010
Turkey Phone: +90 216 5934151
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Contact your dealer: